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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/483,725	01/14/2000	Robert Louis Cupo	Cupo-19-3-5	8757
75	590 05/06/2003			
Stephen J. Weed Esquire Synnestvedt & Lechner LLP 2600 Aramark Tower 1101 Market Street			EXAMINER	
			CORRIELUS, JEAN B	
			2631	3
			DATE MAILED: 05/06/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
•		09/483,725	CUPO ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Jean B Corrielus	2631			
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status 1)⊠	Responsive to communication(s) filed on 14 J	lanuani 2000				
2a)□						
3)□						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims						
4)🛛	Claim(s) 1-19 is/are pending in the application	ı <b>.</b>				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠	5)⊠ Claim(s) <u>5-10,13-15 and 18-19</u> is/are allowed.					
6)⊠ Claim(s) <u>1-4,11,12,16 and 17</u> is/are rejected.						
7)	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
·· _	ion Papers					
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)	☐ All b)☐ Some * c)☐ None of:	a bassa bassa sa asbuad				
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received.  15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachmen	_	. ,				
2) 🔲 Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)			

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#### **DETAILED ACTION**

## Claim Objections

1. Claim 13-17 are objected to because of the following informalities: claim 13, line 1, "system" should be replaced by "transmitter" to provide antecedent basis for recitation in claim 14, line 1, claim 15, lines 1-2, claim 16, line 1, and claim 17, lines 1-2. Appropriate correction is required.

#### Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1, 3, 11, 12, 16 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "sufficient" in the above claims is a relative term which renders the claim indefinite. The term "sufficient" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

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### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art fig. 5 in view of applicant's background of the invention page 3, lines 21-22.

Applicant's fig. 5 teaches a frame formatting method having the steps of filling a fixed length master frame with a plurality of variable length frames with each of a plurality of variable frames introduced by a sync pattern see fig. 5 and filling any unused portion s with a fixed data pattern. However, applicant's admitted fig. 5 does not teach the unused portion of the mater frame is filling with random data to increase randomness in said master frame. In the background of the invention page 3, lines 21-22, applicant's admitted that as well known in the art, system efficiency is maximized in a system which transmit modulated signals by maximizing the randomness of the signal to be transmitted. Given that fact, it would have been obvious to one skill in the art at the time of the invention to modify fig. 5, by replacing the fixed data by random data in order to maximized system efficiency.

As per claims 4, fig. 1 shows a sampler/digitizer and encoder.

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## Allowable Subject Matter

6. Claims 1, 3, 11, 12, 16 and 17 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

- 7. Claims 5-10, 13-15 and 18-19 allowed. However, the claims need to be amended if necessary to overcome the claim objection sets forth above.
- 8. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314

(for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is (703) 305-4023. The examiner can normally be reached on Monday-Thursday from 7:00 A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham, can be reached on (703) 305-4378.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3800.

Jean B. Corrielus 4-29-03

**Primary Examiner** 

TC-2600